Publication No. 73-e33

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OTHER

то:	Dan Neal, Ron Pine, Ron Devitt
	Hans Cregg
FROM:	nans oregg
SUBJECT:	Mt. Spokane STP
DATE:	July 2, 1973



On April 8, 1973, an efficiency study was conducted on the Mt. Spokane Sewage Treatment Plant. The survey ran without incident. A portion of the plant, which appeared to be a finishing unit, was in the process of being plumbed. At the time of the survey no date for completion of the unit was given.

The laboratory results on the composite influent and effluent samples show a high percentage reduction of solids, B.O.D. and C.O.D. However, the actual effluent figures do not meet D.O.E. standards and reflect the overloading that occurs on the influent side. Furthermore, it is also suggested by the high coliform count, that the chlorination of the effluent is insufficient for the amount of loading that occurs in the system.

HC:bjj

Enclosures

STP SURVEY REPORT FORM (EFFICIENCY STUDY)

City Mt. Spokane STP	Plant Type	<u>Package</u> Pop Ser	ulation ved	Desiş Çapad	n city
Receiving Water Bri	ckle Creek		Engineer		
Date	Survey Period	8 hour period	d Survey	Personnel Ha	ans Cregg
Comp. Sampling Frequ	ency Every hour	Weather Co (last 48 h		Clear & cool	
Sampling Alequot 1	000 mls	4 100 100 100 100 100 100 100 100 100 10			
		PLANT OPERATI	.0Х		
Total Flow 6000 ga	1	How	Measured	estimate	
Max. (Flow)	Time of Nax.		Min	Time o	of Min
Pre Cl ₂ None	#/day 1	Post Cl ₂	1/2	/day	
		FIELD RESULT	·s		
	Influer			Effluent	
Determinations	Max. Min. Me	an Median	Max. M	in. Mean	Median
Temp. °C p!! Conductivity (unhos/cm)		3.3 13.2 3.9 7.0		2.0 12.4 7.1 7.2	7.3
Settleable Solids	250 240 2	245	3.0	1.5 2.25	
	LABORATORY	RESULTS ON CO	MPOSITE IN	PPM	
	Influent	Effluen	t	% Reduction	1
Laboratory Number	73-1340	73-1341			
5-Day BOD	1500	96		93.6	s artists the stage positions also. The temperature wage growing and
COD	7170	410		94.3	Complete Com
T.S.	3550	600	1		
T.N.V.S.	845	215	gagarrite sicognosis. El combrataino interprisensis de la milio est	terrollogica em conquesto con como esc. el 16 16 16 16 16 16 16 16 16 16 16 16 16	
T.S.S.	3300	280		91.5	
N.V.S.S.	875	124		85.8	
plI	6.9	7.3		Promise as a series of a series of a series of	
Conductivity	620	650			
Turhidity	3000	081		97.4	

	· ·		
M+	Spokane	SIP	
110.	Spondic	- 11	

BACTERIOLOGICAL RESULTS

Na₂S₂O₃ added to sample before sample XXXXXX was taken.

LAB #	SAMPLING TIME	COLONIES/	100 MLS (MF)	- C1	Residual
		Total	Fecal	ppm	(after secs)
73-342	1000	500,000	2500		
73-343	1300	350,000	800		
73-344	1400	220,000	1300		
73-345	1500	200,000	600		

serator's Name <u>Keith Jacobson</u>	Phone #
caments: Note high total and fecal coliforms.	

U.S. DEPARTMENT OF THE INTERIOR FEDERAL WATER POLLUTION CONTROL ADMINISTRATION SEWAGE TREATMENT PLANT OPERATION AND MAINTENANCE

FORM APPROVED BUDGET BUREAU NO. 42 =81527

	ES QUESTIONNAIR	<u> </u>		
STIST AUDIT RE-AUDIT	ABNIL 7	973	PEANT BESCH	IPTION CODE (For Official U Only)
<u> </u>		INFORMATION		
1. PROJECT (State, Number)		SCOPE OF PHOJECT	(new plant, additi	uns, etc.)
	,			
2. PLANT LOCATION (City, county)		IDENTIFICATION OF	10	1
Spokane County		ROUNT Spe	chane Co	ndaminion Com
	3. PO	PULATION		
SAL FRACTION OF AREA FORULATION SERVED (%)	38. PLANT DESIGN (opulation equivalent)	JC. SERVED B	Y PLANT (domestic)
100%				5
	4. TYPE OF COI	LECTION SYSTEM	W COUTSIPULEO	BY SURFACE OR GROUND
COMBINED SEPARATE	Пвотн	WATER (infiltration	on, mad) None	
YEAR COMMUNITY BEGAN SEWAGE		VEAD DECENT OVE		
TREATMENT	6A. SEWER	5. YEAR PRESENT SYST	PLANT	6C. ANCILLARY WORKS
1973			Κ.	
7A. SIZE OF PLANT SITE (acres)		7B. APPROXIMATE A	REA LEFT FOR I	EXPANSION (acres)
15		4	•	
A. IN THE SPACE PROVICED BELOW FURN	SILA SIMPLIFIED FLOW	DIAGRAM OR A HRITT	EN DESCRIPTION	OF THE PLANT UNITS IN
STABLETATION FONDS AND NUMBER OF	CELLS. INDICATE WH	ETHER FLOW TO AND	FROM PLANT IS E	Y PUMPING OR GRAVITY.
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law _			-01	11 +0
luc of			ETT	luent (screens
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P. c.			1 1	To Drain
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			CIC) +. +
-Qin Mini Tonk -		Clarifien	CIZCON	1901
-91r Mixing Tank-	·	Tank	Tank	(
BB. NOTE ANY SIGNIFICANT OR UNIQUE PR	OCESSING CONDITIONS			
. •				
	9. RECEI	VING STREAM		arigan mingangan garip mgalan na gapan samban akan kalangan mingan mingan menengan menengan menengan dan deri s
A. NAME OF STREAM				онд _{а в п} оделения поделения надменя на одно и одного под под под под под под под под под по
BRICKLO	= CREEK			and the second s
OG. STREAM FLON IS			MINTERSTA	TE CHITRASTATE
PERENNIAL CUNTERMITTENT	X NATURAL	REGULATED	COASTAL	and the second second second as a second
and the state of t	PERFORMANCE AND PL	ANT LOADING INFORMA	PC.LY	and a second contracting and a second contract
1A. ANNUAL AVERAGE DAILY FLOR RATE	IS. PEAK F	LOW SATE (mid)	IC. MITENUM F	LOW PATE 17 10
100003	DRY WEATHER	WET BEATHER	1 04	5000
6000			^-	 And the Section of the Community of the Comm
Z. AVERAGE BOD OF FARSERAGE & DAY I.	, "Cr ppm)	3. AVERAGE SETTLE	ABLE STUDY OF	THAN 5 THAT I HOLD IN THE
•	anga may arang mangganah, pamining mangganah pangganah pangganah pangganah pangganah da sa sa sa sa sa sa sa s	300_	and the contract of the contra	an and a successive water of the same of t
CAVERAGE BUSPERUED BL. (OS OF RAW E.	A D E (m., 1)	S. AVERAGE COURS	эн Бепат с ол	MANUSCHEN THE STATE OF THE
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	S. AHNUAL AVERAS		ing the second s	عاداه فيرادي والمعروف ومصور والمستعد والمستعد
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	ngas serbas y no namen asserbassa para para para para para ne para ne para ne para ne para para ne para para n			The state of the s
F #F CA-12 (Rev. 4-63)				

7A. DOES PLANT HAVE STANDBY POWER GENERATOR FOR MAJOR PUMPING FACILITIES? YES NO	7B. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES? YES NO
8. ARE CHLORINATION FACILITIES PROVIDED? X YES INC	O IF YES, IS CHLORINATION CONTINUOUS? YES NO IF NO, EXPLAIN REASON FOR INTERMITTEN CHLORINATION
alorinates every batch	cycle
8A PURPOSE OF CHLORINATION	
Disinfect Effluent	
BB. TYPE OF CHLORINATOR TIET NAN	
8C. POINT OF APPLICATION OF CHLORINE	8D. CAN BYPASSED SEWAGE BE CHLORINATED?
SE. AVERAGE FEED RATE OF CHLORINE (Ib/day)	SF. CHLORINE RESIDUAL IN EFFLUENT OF PPM AT END OF 10 MINUTES
66. MINIMUM SUPPLY OF CHLORINE STORED ON PREMISES (16)	TO PER AT END OF THE MINUTES
S. ARE FACILITIES PROVIDED FOR COMPLETE BYPASS OF RAW SE	
YES X NO IF YES, ANSWER A TH 9A. FREQUENCY (times monthly) 9B. AVERAGE DURA	RU G BELOW, ANSWER H IN EITHER CASE. TION (hours) 9C. REASON FOR BYPASSING
9D. ESTIMATED FLOW RATE DURING BYPASS IS	9E. DOES SEWAGE OVERFLOW IN DRY WEATHER?
BEYOND HYDRAULIC CAPACITY OF PLANT BEYOND HYDRAULIC CAPACITY OF PLANT BY	YES NO
SF. TYPE OF DIVERSION STRUCTURE	9G. AGENCIES NOTIFIED OF BYPASS ACTION
9H. DO OPERATORS HAVE OPTION TO BYPASS INDIVIDUAL PLANT	UNITS? (If no; has this caused any operational problems?)
YES X NO	
10A. ARE BACK FLOW DEVICES PROVIDED AT ALL CONNECTIONS	TO CITY WATER SUPPLY? (II no, explain)
TES NO	
DOUBLE CHECK VALVE PRESSURE OPERATED	PHYSICAL DISCONNECT OTHER(specily)
11. USES OF TREATMENT PLANT EFFLUENT	
Effluent is discharaged in	to Drainfield
12. USES OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL. RECheqtional	
13. HAVE THERE BEEN ANY ODOR COMPLAINTS BEYOND THE PLA	ANT PROPERTY? (Il yes, explain)
TYES X NO	
14. OBSERVED APPEARANCE AND CONDITION OF EFFLUENT, RE	CEIVING STREAM, OR ORAINAGE WAY

15. STABILIZATION CONOS	D. BANKS AND DIKES MAINTAINED (crosion cic.)?
A, WELDS CUT AND VEGETATIVE GROWTH IN PONDS ELIMINATED	TYES NO
C. PENCING AND WARRING - POLLUTED WATER" SIGNS PRESENT	D. FREQUENCY OF INSPECTION BY OPERATOR
AND IN GOOD HEPAIR?	
E. WATER DEPTH (leet)	
HIGHLOW	MEDIUM
F. ADEQUATE CONTROL OF DEPTH!	G. SEEPAGE REPORTED?
TES NO	YES NO
H. ANY REPORTS OF GROUND WATER CONTAMINATION FROM POND	(If yes, give details)?
YES NO	
I-MOSQUITO BREEDING " IF YES, NAME OF SPECIES IF	J. CAN SURFACE RUN-OFF ENTER POND?
PROBLEM T KNOWN	YES NO
C. SUPERVISORY	SERVICES
1. IS A CONSULTING ENGINEER RETAINED OR AVAILABLE FOR CON	SULTATION ON OPERATING AND MAINTENANCE PROBLEMS?
YES NO ' IF YES IS IT ON: CONTINUING BA	ASIS OR X UPON REQUEST BASIS
IF CONTINUING BASIS, WHAT IS THE FREQUENCY OF VISITS:	TO USE SCHOOL COR OTHER TRAINING ACTIVITIES?
2. DO OPERATORS AND OTHER PERSONNEL ROUTINELY ATTEND SH	ORT COURSES, SCHOOLS ON OTHER TRAINING ACTIVITIES
YES X NO	
IF YES, CITE COURSE SPONSOR AND DATE OF LAST COURSE A	TT ENDED
17 123, C112 C001132 31 C113011 1112 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	•
IF NO. DO YOU KNOW OF ANY COURSES AVAILABLE TO SERVE	THIS AREA?
3A. ARE ALL EQUIPMENT AND PARTS OF THE PRESENT PLANT STI	YES NO (If no, explain)
B. ARE PROCESSING UNITS OPERATING AT DESIGN EFFICIENCY?	YES NO (II no, explain)
•	
4. HAVE THERE BEEN ANY DIFFICULTIES WITH THE SEWAGE TREA	TMENT PLANT!
A. STRUCTURAL YES NO (Il yes explain)	
•	
B. MECHANICAL YES NO (Il yes, expluin)	
A Summer Control of the Control of t	·
& Submensible pumps have	agrenat
o soomensi de pumps nave	9-11-0-0-1
	•
C. OPERATIONAL YES HO (II yes, explain)	_
C. OF ENATIONAL CONTRACTOR OF CONTRACTOR	
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Screen in air Hixing Tan and Beguines much of the Bush of Control of the State what If ANY CHA	tto. Tan
- Und regulacy hock of	BASS WOULD YOU RECOMMEND TO IMPROVE OPERATION
OF THE PLANT?	4453 40000 130 ACCOMMEND 10
Submersible pumps Show	Id be a harrand to
Joumer store kampa 21100	in de changed
the capuabailla tona	
Non-submersible Type	
•	

5 ARE OPE 3 (Il maintai	nating RE	CORDS MAI Jeneral item	NTAINSD? s included)	YES [но	REPORTED TO WHOM?	o, []	YES 🔀	NO	- p	
FREQUENCY	NEATHER	FLOW	SLUDGE HANDLED	CHEMICALS	DIGESTER	GRIT HANDLED	ELEC. USED	COST DATA	AIR USED	MAIN- TENANCE	OTHER
DAILY		X									X
WEEKLY											
MONTHLY								,			
ANNUALLY											
6. ARE LABO	RATORY R	ECORDS M	AINTAINED?	(check appr	opriate box)	. L	. A publicarior -			. 4	
WHAT PLA	ATORY TES	OG BOOK R LABORAT	TABUL ORY EQUIP	AR SHEET MENT, GAGE	SEPA	TERS ARE C	PERATION ALIBRATED	PERIODICA	ROL CHAR	TS GR/	APHS
D						A NUMBER	D AND TYPE	C GE INDII	TOLES DIS	CHARGING T	O SYSTEVS
8. INDUSTRI	AL WASTES	DISCHARG	ED TO MUNI	ICIPAL SYST	EM:	A. NOMBE	R AND TIFE	23 07 11100.			
B. POPULA	TION EQUIV	ALENT (BC	D) OF INDU	STRIAL WAS	TES (pe)	C. POPUL	ATION EQUI	VALENT (SS) OF INDU	STRIAL WAST	'E5 (pe)
D. VOLUME	OF INDUST	FILAL WAST	E.5 (m@d)			E. COMPOS	SITION AND	CHARACTE	RISTICSO	FINDUSTRIA	L WASTES
F. MAIN DIF			1								
G. HAVE IN	DUSTRIAL E	FFLUENT	PROBLEMS	BEEN SOLV	ED?	YES	NO (II	yes, how?)			
9A. METHOD	OR METHO	DS USED T	O ASSESS IN	IDUSTRIAL V	NASTE TRE	ATMENT CO	ST (check a	opropriate bo	x)	<u></u>	
. [NO CHARC	E BY CITY	PRC	DPERTY TAX	√ ∏ ₩A □CH	TER USE AS	SESSMENT	СНА	RGE BASE	DON FLOW DS (describe)	
9B. IS INDUS	TRIAL WAS	TE ORDINA	NCE IN EFF	ECT AND E	NFORČED?	YES	NO				
10. WHO PRO		IAL INSTRI	CTOR	HE OPERAT	TON OF TH	E PLANT?					
11. IS A MAN		ACTICE OF	INSTRUCTI	ONS AVAILA	VBLE?	IF YES, WH	O WROTE A	ND PROVID •	ED IT?		
12. ESTIMAT	E OF MAN-	HOURS PEF	HOURS	OTED TO LA	ROTATOR	Y NORK AND	MAINTENA	NCE OF RE	CORD'S AT	ID REPORTS	and the second s
	(D. PLANT	I	Armid Ave	rage Statt to	r Most Recet	of Year Repo	rted in Section	on ''F'')		
JOB C	ATEGORY		нимаек		AL MANAHO PER WEEK	CEI	AL NUMBER RIFLED DR ROEMSLO	E MARK	E IN MEAR OMED AT MT PLAN) :	494 - 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
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3. LATORA	1057 750m	27.714.53									and the second s
4. LABORE 5. PAST - 7	MS LADOR	ens									مورد موجوره دمرد،
6. TOTAL					10		Ø	3	MONTH	-13n	DNIA

E. LABORATORY CONTROL

Enter test codes opposite appropriate items. If any of the below tests are used to monitor industrial wastes place an "X" in addition to the test code.

CODES

1 - 7 or more per week

3 - 1, 2, or 3 per week 5 - 2 or 3 per month

7 - Quarterly

9 - Annually

2 - 4, 5 or 6 per week

4 - as required

6 - 1 per month

8 - Semi-Annually

RAW	PRIMARY		l l						
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F.	OPERATION	HAND HAIN	TENANCE COS	TFO	R PLANT				
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38. ARE THERE ANY P UPGRADING OF TR	ENDING ACTIONS (enfor EATMENT BY THIS PLA	cement conferences, ch. NT?	ange in water quality stand	ords, etc.) THAT WOULD REQUIRE
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STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

WATER QUALITY LABORATORY

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_ Date <u>5-7-23</u>

ORIGINAL TO:

DATA SUMMARY

Source () r. Spokane	Co	Collected By #.C.											
Oate Collected 4/8/73 Goal, Pro./Obj. 3.2.23													
Log Number: 73-	340	, 4)	42	43	44	45	46	47	<u>u y</u>	. ५१	<u>50</u>	<u>51</u>	STORET
Station:	INF	EFF		2	_3_	ч	1000 1NF	EFF	1300 INF	E Fr	124	3.43	STORET
Н	6.9	7.3							<u> </u>				00403
Turbidity (JTU)	3000	80							<u></u> .				00070
Conductivity (umhos/cm)@25c	620	650											00095
COD	7170	410											00340
30D (5 day)	1500.	96											00310
Cotal Coliform (Col./100ml)			500,000	350 000	220,000	200,00							31504
Gecal Coliform (Col./100ml)			2500		1300								31616
103-N (Filtered)													00620
IO2-N (Filtered)			-	-									00615
H3-N (Unfiltered)		-											00610
. Kjeldahl-N (Unfiltered)													00625
-PO4-P (Filtered)													00671
otal PhosP (Unfiltered)													00665
otal Solids	3550	600											00500
otal Non Vol. Solids	845	215											
otal Suspended Solids	3300	280											00530
otal Sus. Non Vol. Solids	875	124											
HEXANC EXTRACT. GREASES							590	5	530	2	430	22	
	-				-			-					
ote: All results are in PPM unless otherwise specified. ND is 'None Detected'' Convert those marked with a * to PPB (PPM X 103) prior to entry into STORET													

Stepher D. Rall